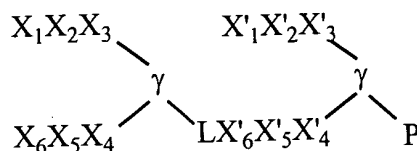


8. (Amended) A tandem-linked polyamide of claim 1 having the formula:



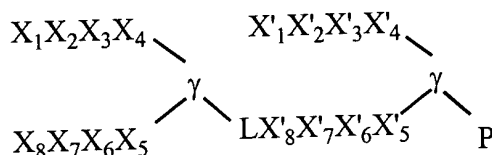
wherein γ is a chiral hairpin linkage derived from R-2,4-diaminobutyric acid;

X_1/X_6 , X_2/X_5 , X_3/X_4 , X'_1/X'_6 , X'_2/X'_5 , and X'_3/X'_4 represent six carboxamide binding pairs which bind DNA base pairs wherein at least one binding pair is Hp/Py or Py/Hp and the other binding pair(s) is(are) selected from the group consisting of Py/Im, Im/Py, and Py/Py to correspond to the DNA base pair in the minor groove to be bound;

L represents an amino acid linking group selected from the group consisting of β -alanine and 5-aminovaleric acid (δ); and

P represents zero to ten polyamides of claim 1.

9. (Amended) A tandem-linked polyamide of claim 1 having the formula:



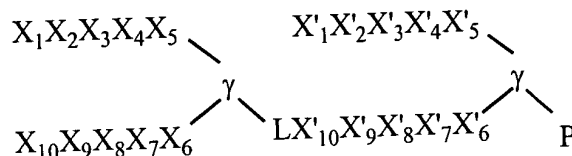
wherein γ is a chiral hairpin linkage derived from R-2,4-diaminobutyric acid;

X_1/X_8 , X_2/X_7 , X_3/X_6 , X_4/X_5 , X'_1/X'_8 , X'_2/X'_7 , X'_3/X'_6 , and X'_4/X'_5 represent eight carboxamide binding pairs which bind DNA base pairs wherein at least one binding pair is Hp/Py or Py/Hp and the other binding pair(s) is(are) selected from the group consisting of Py/Im, Im/Py, and Py/Py to correspond to the DNA base pair in the minor groove to be bound;

L represents an amino acid linking group selected from the group consisting of β -alanine and 5-aminovaleric acid (δ), and

P represents zero to ten polyamides of claim 1.

10. (Amended) A tandem-linked polyamide of claim 1 having the formula:



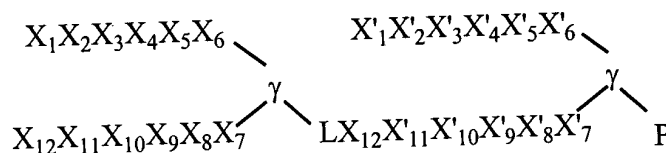
wherein γ is a chiral hairpin linkage derived from R-2,4-diaminobutyric acid;

X_1/X_{10} , X_2/X_9 , X_3/X_8 , X_4/X_7 , X_5/X_6 , X'_1/X'_{10} , X'_2/X'_9 , X'_3/X'_8 , X'_4/X'_7 , and X'_5/X'_6 represent ten carboxamide binding pairs which bind DNA base pairs wherein at least one binding pair is Hp/Py or Py/Hp and the other binding pair(s) is(are) selected from the group consisting of Py/Im, Im/Py, and Py/Py to correspond to the DNA base pair in the minor groove to be bound;

L represents an amino acid linking group selected from the group consisting of β -alanine and 5-aminovaleric acid (δ); and

P represents zero to ten polyamides of claim 1.

11. (Amended) A tandem-linked polyamide of claim 1 having the formula:

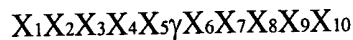


wherein γ is a chiral hairpin linkage derived from R-2,4-diaminobutyric acid;

X_1/X_{12} , X_2/X_{11} , X_3/X_{10} , X_4/X_9 , X_5/X_8 , X_6/X_7 , X'_1/X'_{12} , X'_2/X'_{11} , X'_3/X'_{10} , X'_4/X'_9 , X'_5/X'_8 and X'_6/X'_7 represent twelve carboxamide binding pairs which bind DNA base pairs wherein at least one binding pair is Hp/Py or Py/Hp and the other binding pair(s) is(are) selected from the group consisting of Py/Im, Im/Py, and Py/Py to correspond to the DNA base pair in the minor groove to be bound;

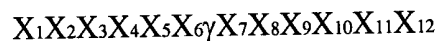
L represents an amino acid linking group selected from the group consisting of β -alanine and 5-aminovaleric acid (δ); and

14. (Amended) A tandem-linked polyamide comprising a first and second polyamide wherein said first polyamide is a polyamide having the formula:



wherein γ is a chiral hairpin linkage derived from R-2,4-diaminobutyric acid; and X_1/X_{10} , X_2/X_9 , X_3/X_8 , X_4/X_7 , and X_5/X_6 represent five carboxamide binding pairs which bind DNA base pairs wherein at least one binding pair is Hp/Py or Py/Hp and the other binding pair(s) is(are) selected from the group consisting of Py/Im, Im/Py, and Py/Py to correspond to the DNA base pair in the minor groove to be bound; said second polyamide is a polyamide according to claim 4, 5, or 7; and said first and second polyamides being linked by an amino acid linking group selected from the group consisting of β -alanine and 5-aminovaleric acid (δ) bound to the γ -residue of said first polyamide and the carboxy tail of said second polyamide.

15. (Amended) A tandem-linked polyamide comprising a first and second polyamide wherein said first polyamide is a polyamide having the formula:



wherein γ is a chiral hairpin linkage derived from R-2,4-diaminobutyric acid; and X_1/X_{12} , X_2/X_{11} , X_3/X_{10} , X_4/X_9 , X_5/X_8 , and X_6/X_7 represent six carboxamide binding pairs which bind DNA base pairs wherein at least one binding pair is Hp/Py or Py/Hp and the other binding pair(s) is(are) selected from the group consisting of Py/Im, Im/Py, and Py/Py to correspond to the DNA base pair in the minor groove to be bound; said second polyamide is a polyamide according to claim 4, 5, or 6; and said first and second polyamides being linked by an amino acid linking group selected from the group consisting of β -alanine and 5-aminovaleric acid (δ) bound to the γ -residue of said first polyamide and the carboxy tail of said second polyamide.



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Specification Not in English

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File Wrapper Search Info

Internal

____ SRNT _____
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____ CLMPTO _____
PTO Prepared Complete Claim Set

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Evidence Copy Box Identification

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____ WFEE _____
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